

# **California Water Plan Update 2003 Table of Contents**

## **Volume 1: Strategic Plan**

**Foreword**  
**Users Guide**  
**Executive Summary**

### **Findings and Recommended Actions**

- Findings
  - Setting
  - Current Conditions
  - Future Uncertainties and Scenarios
  - Regional Planning and Diversified Strategies Improving Water Management
- Recommended Actions
- Strategy Investment Options Table**
  - Notes for Strategy Investment Options Table

### **Chapter 1: Water Plan Overview**

- Importance of Water to California's Well-Being
- Changing the Water Plan
- Purpose of this Water Plan
- Key Features
- Key Themes
  - Vision for 2030
  - Goals and Objectives
- Implementation Plan
- Phased Work Plan
- Organization

### **Chapter 2: California Water Today**

- California's Diversity
  - Climates, Ecosystems, and Hydrology
  - Industry, People, Social Settings
- Current Situation
  - Water Supply and Management
    - General Adequacy of Water Supplies and Water Quality
    - Regional/Local Challenges
    - Dry-Year Challenges
    - Ongoing Concerns
  - Water Planning and Programs
    - Trend from Statewide Solutions to Regional Reliability
    - Water Reliability Management
    - Integrated Resource Planning
    - Statewide and Inter-Regional Response
    - Federal Planning (Water 2025)
- Institutional Setting
  - Current State Role and Commitments
  - Roles of Others
  - Understanding How Water Is Allocated, Used and Regulated

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## **Chapter 3: Planning for an Uncertain Future**

- Overview of uncertainty
- Future Landscape (Land Use Patterns)
  - Urban
    - Benefits
    - Issues
    - Water Demands
  - Future of Agriculture
    - Benefits
    - Issues
    - Water Demands
  - Ecosystem
    - Benefits
    - Issues
    - Water Demands
- Other Uncertainties
  - Data and Analytical Tools
  - Global Climate Change
  - Scientific Understanding
  - Unpredictable Events
  - Changing Policies and Laws
- Framework for Future Analysis
  - Proposed Analytical Approach for Evaluating an Uncertain Future
    - Water Portfolios
    - Future Scenarios
  - Performance Comparison
    - Improving the Analytical Tools and Data
    - Identified Data Gaps

## **Chapter 4: Recommendations**

- Planning is Vital for the Future
  - Consideration of All Competing Needs
    - Environmental evaluation
    - Social equity evaluation
    - Economic and financial evaluation
  - List of Guiding Principles of Planning
- Regional (and Local) Role
  - Focus Planning Regionally
  - Develop Diverse Water Management Portfolios
    - Strategies for Resource Management
  - Invest in Data Collection and Better Analytical Tools
- State Role
  - Commitments and roles
  - Strategic Planning
    - Improve Data Collection and Management
    - Research and Development (commercialization of new technologies)
  - Participating in Partnerships for Providing Improvements for Broad Public Benefit
    - Ecosystem Protection and Enhancement
    - Issues of Statewide Significance
    - Inter-Regional Programs and Projects (Including SWP and CVP)
    - Federal Programs and Projects (nexus with Water 2025)
  - Technical Assistance
    - Provide Expertise to Local and Regional Entities Needing Assistance
    - Assist in Managing Emergency Situations and Critical Issues

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- Investment and Financial Assistance
- Rehabilitation of Aging Water Infrastructure
- Partner in Projects and Programs that Provide Broad Public Benefit and/or Address
- Issues of Statewide Significance
  - Administrative Oversight
  - Public Trust
  - Cabinet-level Strategic Water Team

## **Chapter 5: Implementation Plan**

- Financing Policy, Strategies, and Recommendations
- Tracking Implementation and Performance
  - Measuring Success in Meeting Water Plan's Goals and Objectives
  - Evaluation Criteria
- Implementing the Recommendations (Table)

**Back Matter – Glossary, references, appendixes, etc.**

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<b>Chapter 2: Agricultural Lands Stewardship</b>
<b>Chapter 3: Agricultural Water Use Efficiency</b>
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- Chapter 10: South Lahontan Hydrologic Region**
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- Chapter 12: Mountain Counties Region**
- Chapter 13: Sacramento – San Joaquin Delta Region**

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### **Volume 4: Reference Guide**

#### **Agriculture**

1. Future Food Production and Consumption in California Under Alternative Scenarios  
(By Henrich Brunke, Richard Howitt and Daniel Sumner)  
(University of California Agricultural Issues Center)
2. The Promise of Regulated Deficit Irrigation in California's Orchards and Vineyards  
(By David Goldhamer and Elias Fereres)  
(University of California, IAS-CSIC, and University of Cordoba, Spain)

#### **Data and Tools**

3. Committee on Long term Analytical Tool and Data Development  
(By California Water and Environment Modeling Forum)
4. Future Quantitative Analysis for California Water Planning  
(By Ken Kirby)  
(SKS Consultants)
5. Irrigation Survey – Data Analysis  
Pending  
(By Morteza Orang, Richard Snider, Scott Matyac)  
(Department of Water Resources and University of California Davis)

#### **Environment**

6. Considering Water Use Efficiency for the Environmental Sector  
(By Jeff Deason, Jessica Fast, Lisa Scroeer, Brian Turner, Renske van Staveren)  
(By University of California Berkley)

#### **Evapotranspiration**

7. CUP (Consumptive Use Program) Model  
(By Morteza Orang, Richard Snider, Scott Matyac)  
(Department of Water Resources and University of California Davis)
  8. SIMETAW (Simulation of Evapotranspiration of Applied Water)  
(By Richard Snider, Morteza Orang, Shu Geng, Scott Matyac. Sara Sarreshteh)  
(University of California Davis and Department of Water Resources)
  9. Separate Quantification of Evaporation and Transpiration  
(By .....)
- Pending

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## **Global Climate Change**

10. Climate Change and California Water Resources:  
A Survey and Summary of the Literature  
(By Michael Kiparsky and Peter H. Gleick)  
(Pacific Institute for studies in Development, Environment and Security)
11. Accounting For Climate Change  
(By Maury Roos)  
(Department of Water Resources)

## **History**

12. A California Water Chronology  
(By Staff)
13. Update of the California Water Plan  
(By Staff)

## **Hydrology**

14. California River Indices  
(By Staff)
15. Frequency of a 100 Year Flood  
(By Staff)
16. Major Floods Since 1950  
(By Staff)
17. Severity of Extreme Droughts in Sacramento and San Joaquin Valley  
(By Staff)

## **Infrastructure**

18. California's Major Water Projects  
(By Staff)
19. California Reservoirs  
(By Staff)
20. Hydropower Projects Relicensing  
(By Staff)

## **Legislation**

21. Water Plan Legislation  
(By Staff)

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22. Recent Water Legislation  
(By Staff)

23. Water Bonds  
(By Staff)

### **Operations**

24. Bay Delta Standards  
(By Staff)

### **Planning**

25. Basic Strategic Planning  
(By Department of Finance)

26. Customer & Stakeholders Survey for CWP Update 2003  
(By Staff)

27. Future Scenarios and Responses  
(By Staff)

28. Planning Framework for Water Plan Update  
(By Staff)

29. Planning For Extreme and Prolonged Drought Conditions  
(By Staff)

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